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IS 8236 (1994): Slats for Cane Carriers [FAD 2: Sugar Industry]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

केन कैरियर के लिए स्लैट — विशिष्ट

(पहला पुनरीक्षण)

Indian Standard

SLATS FOR CANE CARRIERS —
SPECIFICATION

(*First Revision*)

UDC 621·867·523 : 664·111

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BUREAU OF INDIAN STANDARDS
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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Sugar Industry Sectional Committee had been approved by the Food and Agriculture Division Council.

Slats are important components of cane carriers which are used to transport cane to the milling tandem, where it is crushed for extraction of juice.

This Indian Standard has been formulated to provide guidelines for ensuring their quality.

This standard was first published in 1976 in which the dimensions for slats were given for different plant capacities. In this revision, the dimensions have been revised to include for different plant capacities, the corresponding size of the milling plant and the number of strands, in addition to the width and thickness of slats.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

SLATS FOR CANE CARRIERS — SPECIFICATION

(*First Revision*)

1 SCOPE

This standard specifies material, dimensions, and requirements of slats for cane carriers.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
226 : 1975	Structural steel (standard quality) (<i>fifth revision</i>)
2500 (Part 1) : 1992	Sampling inspection tables: Part 1 Inspection by attributes and by count of defects (<i>second revision</i>)
8465 : 1990	Cane carrier chains (<i>first revision</i>)

3 DIMENSIONS

3.1 Material

Mild steel conforming to grade Fe 410-S of IS 226 : 1975.

3.2 The width, thickness and number of strands of the slats for different milling plant sizes corresponding to different plant capacities shall be as given in Table 1.

3.3 Typical designs of slats are given in Fig. 1A and 1B.

4 WORKMANSHIP AND FINISH

4.1 The slats shall be free from pits, burrs and other defects which are detrimental in their use.

4.2 Protective coating shall be provided on the surface of the slats.

5 PACKING

As agreed to between the purchaser and the supplier.

6 MARKING

6.1 Each slat shall be marked with the following particulars:

- a) Manufacturer's name or recognized trade-mark,
- b) Code or batch number, and
- c) Slat thickness and length.

6.2 BIS Certification Marking

The product may also be marked with Standard mark.

6.2.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

7 SAMPLING

7.1 Lot

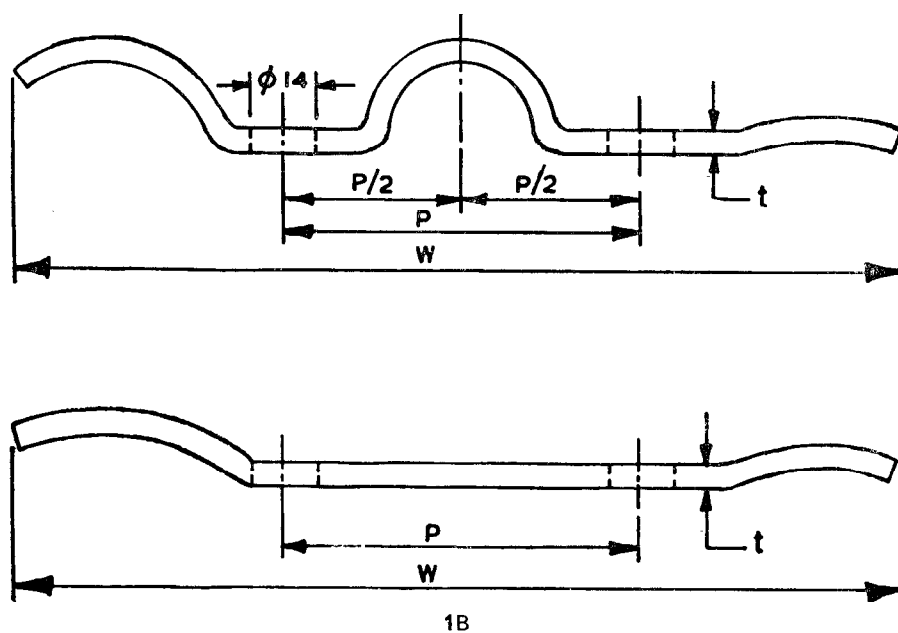
In a consignment, all slats of same size manufactured from the same material under similar conditions of production shall be grouped together to constitute a lot.

7.2 Unless otherwise agreed to between the supplier and the purchaser, the procedure given in IS 2500 (Part 1) : 1992 shall be followed for sampling inspection. For dimensions and thickness, a single sampling plan with inspection level II and AQL 2.5 percent as given in Table 1 and II-A of IS 2500 (Part 1) : 1992 shall be followed.

Table 1 Dimensions of Slat for Different Plant Capacities/Sizes

(Clause 3.2)

Sl No.	Capacity of Plant (Tonnes per Day)	Milling Plant Size mm	Width of the Slat, W mm	No. of Strands	Thickness of Slat, t mm
(1)	(2)	(3)	(4)	(5)	(6)
i)	Up to 2 500	762 ϕ \times 1 525 L	188 or 183	3	5
ii)	2 500 to 3 500	850 ϕ \times 1 700 L	188 or 183	3	6
iii)	4 000 to 5 000	915 ϕ \times 1 830 L	188 or 183	3	6
		OR			
		915 ϕ \times 1 980 L			

 ϕ = Diameter of the roller. L = Length of slat = Width of cane carrier – 5 mm.

P = 60 mm (for hexagonal head bolts)
 75 mm (for T head bolt)

All dimensions in millimetres.

FIG. 1 SLATS FOR CANE CARRIERS

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